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ADVISORY COMMITTEE COMMENT FORM
FOR PROPOSED CODE CHANGES
(This form must be submitted electronically)

IEBC #6

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Proposed Code Change - Language

1311.706.2 Addition or replacement of roofing or replacement of equipment. Where addition or replacment of roofing or replacement of equipment results in additional dead loads, structural components supporting such reroofing or equipment shall comply with the gravity load requirements of the International Building Code.

Exceptions:

1. Structural elements where the additional dead load from the roofing or equipment does not increase the ~~force in the element by more than 5 percent~~ demand-capacity ratio for the element by more than 5 percent. Additional loads due to snow retention as a result of a change in roof insulation shall be included in the evaluation.
2. Buildings constructed in accordance with the International Residential Code or the conventional light frame construction methods of the International Building Code and where the dead load from the roofing equipment is not increased by more than 5 percent.
3. Addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m^3) or less over and existing, single layer of roof covering.

Proposed Code Change – Need and Reason

The proposed code change refers to an increase in demand/capacity ratio instead of the force in the element. This language conforms to the industry standard for the practice of structural engineering in which calculations are prepared using reliability based design methods. The change will also recognize that 5 percent increase in the member force or stress may not be acceptable if the member demand capacity ratio is already considerably above 1.00. The designer upon recognizing that condition would make a professional judgment if the exception could still reasonably be applied. Re-roofing that involves new roof insulation with a higher R-value may increase snow retention and cause additional loading because the snow will no longer melt at the same rate; this additional loading needs to be included in the structural evaluation.

Proposed Code Change – Cost/Benefit Analysis

This proposed code change will result in neither a cost increase or decrease.

Other Factors to Consider Related to Proposed Code Change

1. Is this proposed code change meant to:

   [x] change language contained in a published code book? If so, list section(s).
   IEBC Chapter 7, section 706 – Structural, paragraph 706.2

   [ ] change language contained in an existing amendment in Minnesota Rule? If so, list Rule part(s).

   [ ] delete language contained in a published code book? If so, list section(s).

   [ ] delete language contained in an existing amendment in Minnesota Rule? If so, list Rule part(s).

   [ ] neither; this language will be new language, not found in the code book or in Minnesota Rule.

2. Is this proposed code change required by a Minnesota Statute or new legislation? If so, please provide the citation to the Statute or legislation.
   No

3. Will this proposed code change impact other sections of a published code book or of an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.
   No

4. Will this proposed code change impact other parts of the Minnesota State Building Code? If so, please list the affected parts of the Minnesota State Building Code.
   No

5. Who are the parties affected or segments of industry affected by this proposed code change?
   Building design engineers.

6. Can you think of other means or methods to achieve the purpose of the proposed code change? If so, please explain what they are and why your proposed change is the preferred method or means to achieve the desired result.
   No

7. Are you aware of any federal requirement or regulation related to this proposed code change? If so, please list the regulation or requirement.
   No